KMT - Kraus Messtechnik GmbH

Gewerbering 9, D-83624 Otterfing, Germany, 2008024-48737, Fax. 08024-5532 Home Page http://www.kmt-telemetry.com, Email: info@kmt-telemetry.com



CTP32-Rotate

32 channel telemetry for rotating applications like wheels or rotors, high signal bandwidth, 16bit, software programmable



- Inputs for STG, POT, TH-K, ICP, VOLT ..
- Simultaneous sampling
- 16 bit resolution
- Software programmable
- Signal bandwidth: 32 x 0-3000Hz
- Battery power up to 6h
- Radio telemetry transmission
- Output analog +/- 10V
- Digital data interface to PC (option)
- Waterproofed ENC housing (IP65)



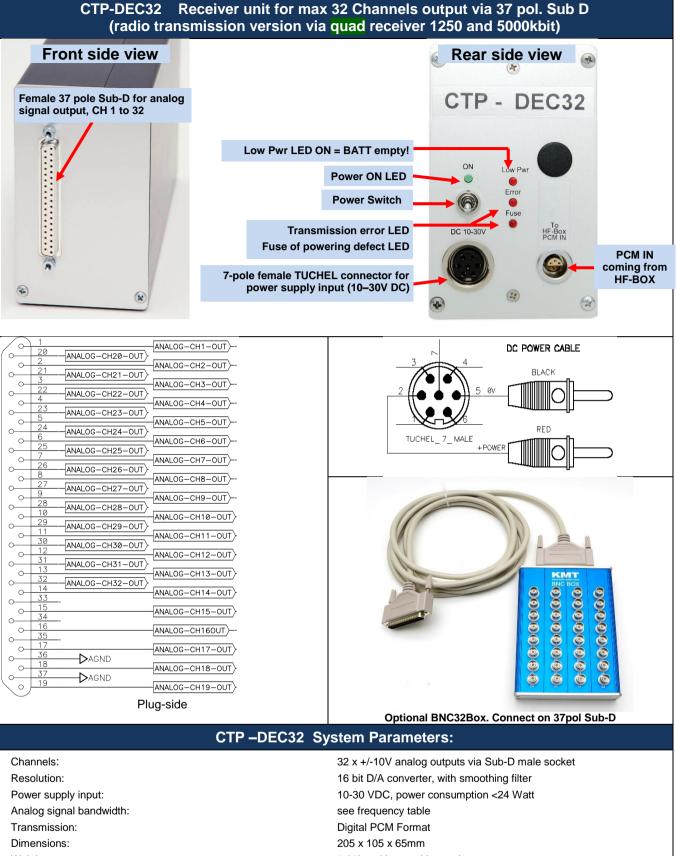
CTP32-Rotate Transmitting Unit Technical Data (Encoder)





Encoder in IP65 Aluminum housing Encoder inside CTP acquisition modules (rotor side) CTP-STG V3 CTP-VOLT V3 Acquisition module for 2 strain Acquisition module for 2x high level gages inputs Range: ±0,625V, ± 1,25V, ±2,5V, ± 5V, ±10V Full, half and quarter bridge (≥350Ω) Fixed excitation 4V DC Offset calibration by auto zero Gain: 125-250-500-1000-2000 Signal bandwidth 0 Hz to 3000Hz* (*see table of cut-off-frequency) **Resolution 16bit** Signal bandwidth 0 Hz to 3000Hz* Accuracy <0.2% Current consumption 60mA (*see table of cut-off-frequency) Resolution 16bit Accuracy <0.2% Current consumption with full bridge 350 ohm 75mA CTP-ICP[®] V3 СТР-ТН-К V3 Acquisition module for 2 ICP Acquisition module for 2x TH-K sensors Inputs galvanic isolated Current EXC. 4mA Gain: 1-2-4-8-16-32 Range -50 to 1000°C, -50 to 500°C or -50 to 250°C Signal bandwidth 3 Hz to 3000Hz* (*see table of cut-off-frequency) Cut-off filter 30Hz (more on request) Resolution 16bit Resolution 16bit Accuracy: 0.2% at 1000°C range Accuracy <0.2% Current consumption 110mA Current consumption 100mA CTP-POT V3 Acquisition module for 2 poti-CTP-CONTROL V3 sensors Controller 1- 32 acquisition modules with ≥350Ω ... 10kΩ (typical 1kΩ) Output: PCM Fixed excitation 4V DC Programmable via LAN adapter Signal bandwidth 0 Hz to 3000Hz* Current consumption 40mA, with (*see table of cut-off-frequency) Resolution 16bit LAN-adapter 140mA 66000000 Accuracy <0.2% Current consumption about 70mA System Parameters ENCODER: 32 Channels: Reso Line-o

Channels:	32
Resolution:	16 bit A/D converter with anti-aliasing filter, simultaneous sampling of all channels
Line-of-sight distance:	up to 20m (depends of application and bit rate)
Powering:	Li Ion Accumulator 7.2V, 7800mA capacity up to 6 hours
Power consumption:	about 1300mA using 32x STG full bridge sensors 350 Ohms
Analog signal bandwidth:	See table
Transmission:	Digital PCM Miller format - FSK
Transmission Power:	10mW
Dimensions:	Diameter 250mm, bottom plate diameter 280mm, height 80mm (without antenna), 160 with antenna!
Weight:	3.60 kg without sensor cables and antenna
Operating temperature:	- 20 +70°C
Housing:	Aluminum anodized, waterproofed (IP65)
Humidity:	20 80% no condensing
Vibration:	5g Mil Standard 810C, Curve C
Static acceleration:	100g in all directions, 1000 RPM
Shock:	200g in all directions

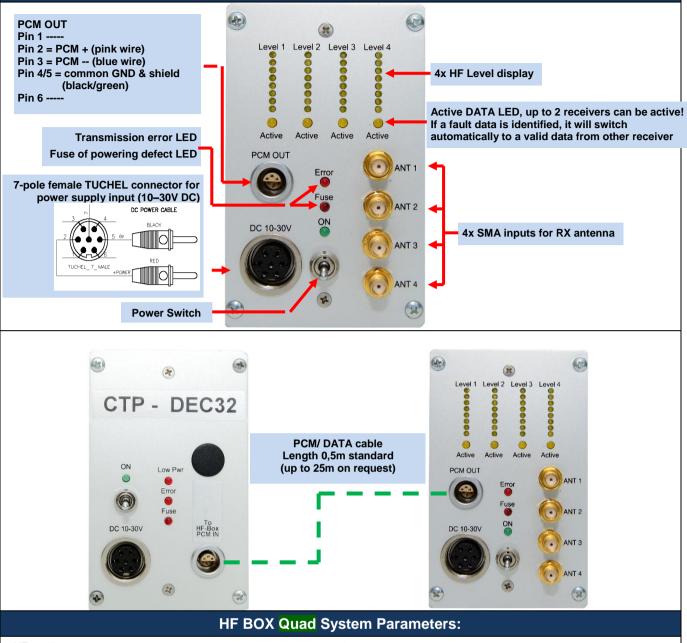


Weight: 1.00kg without cables and antenna

Overall system accuracy between encoder input and decoder output: +/-0.2% without sensor influences

Environmental		
Operating:	-20 +70°C	
Humidity:	20 80% not condensing	
Vibration:	5g	
Static acceleration:	10g in all directions	
Shock:	100g in all directions	

CTP-DEC32 Receiver unit for max 32 Channels output via 37 pol. Sub D (radio transmission version with HF BOX Quad with 4 receiver 1250-5000kbit)



HF receivers	4	
Antenna connection	SMA	
Output	PCM	
Power supply input:	10-30 VDC, power consumption <24 Watt	
Dimensions:	205 x 105 x 65mm	
Weight:	1.050 kg without cables and antenna	
Environmental		
Operating:	-20 +70°C	
Humidity:	20 80% not condensing	
Vibration:	5g	
Static acceleration:	10g in all directions	
Shock:	100g in all directions	

Setting	gs CTP-Rot	tate-ENC			Pro	ogramn	nab	le v	ia web	interf	face		
			< > <	http://192.168.0	0.110/	Q	- 🖻 C	× 🥖	KMT MT-PRO Setu	p ×	Ņ		ı ★ ‡
Web interf	ace address L	AN adapter:	× Google			• 3	Suche •	+ 🗩 🔳 ·	📲 🛛 🔁 Weiterge	eben * 💷 * 🥖	Sidewiki *	😭 🎽 🥎 🍾 🌖 Ar	melden *
e.g. IP 192.168.0.110 or 111, 112		🙀 🧟 dict.o	c Wörterbuch En	iglis				4	• 🖃 💼	▼ Seite ▼	Sicherheit 👻 Extras 👻	••	
(see current	IP no. on LAN-Ad	apter!!)	KMTN		Ana	alog Char	nol	Sot	In				*
Settings:						nog onai	mer	Jen	чр				
			Channel 1	Strain Gauge	Type:	FULL-BRIDGE	Gain:	1000 🔻	Make Autozero:	🔲 Chann			
STG			Channel 2	Strain Gauge	Type:	FULL-BRIDGE -		1000 -	Make Autozero:	Chann			
	250-500-1000-	2000	Channel 3 Channel 4	Strain Gauge	Type:	FULL-BRIDGE		1000 •	Make Autozero:	Chann			
		2000	Channel 4 Channel 5	Strain Gauge Strain Gauge	Type: Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero: Make Autozero:	Chann			
Half- and f	•		Channel 6	Strain Gauge	Type:	FULL-BRIDGE		1000 -	Make Autozero:	Chann			
Make Auto	o Zero YES/NO)	Channel 7	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 🔻	Make Autozero:	Chann			
			Channel 8	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 🕶	Make Autozero:	🔲 Chann	el 8		
ICP			Channel 9	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 🔻	Make Autozero:	Chann	el 9		
Gain 1-2-4	-8-16		Channel 10	Strain Gauge	Type:	FULL-BRIDGE -		1000 🔻	Make Autozero:	Chann			
	010		Channel 11	Strain Gauge	Type:	FULL-BRIDGE -	Gain:		Make Autozero:	Chann			
			Channel 12	Strain Gauge	Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero:	Chann			
VOLT			Channel 13 Channel 14	Strain Gauge Strain Gauge	Type: Type:	FULL-BRIDGE	Gain:	1000 ▼ 1000 ▼	Make Autozero: Make Autozero:	Chann			=
Range ±0,	625V, ± 1,25∖	/, ±2,5V,	Channel 15	Strain Gauge	Type:	FULL-BRIDGE	Gain	1000 -	Make Autozero:	Chann			
± 5	5V. ±10V		Channel 16	Strain Gauge	Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero:	Chann			
	, -		Channel 17	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 -	Make Autozero:	Chann			
тн-к			Channel 18	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 -	Make Autozero:	Chann	el 18		
			Channel 19	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 🔻	Make Autozero:	🔲 Chann	el 19		
•	to 1000°C, -5	o0 to 500°C	Channel 20	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 🔻	Make Autozero:	🗖 Chann	el 20		
or -50) to 250°C		Channel 21	Strain Gauge	Type:	FULL-BRIDGE -	oun.	1000 -	Make Autozero:	Chann			
			Channel 22	Strain Gauge	Type:	FULL-BRIDGE		1000 -	Make Autozero:	Chann			
PT100/100	າດ		Channel 23	Strain Gauge	Type:	FULL-BRIDGE	oun.	1000 -	Make Autozero:	Chann			
		4 Wire	Channel 24 Channel 25	Strain Gauge Strain Gauge	Type: Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero:	Chann			
Туре:	PT100	11110	Channel 26	Strain Gauge	Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero:	Chann	0. 20		
	PT100	3 Wire	Channel 27	Strain Gauge	Type:	FULL-BRIDGE	Gain:	1000 -	Make Autozero:	Chann			
	PT100	2 Wire	Channel 28	Strain Gauge	Type:	FULL-BRIDGE -	Gain:	1000 -	Make Autozero:	Chann	el 28		
	PT1000	4 Wire	Channel 29	ICP			Gain:	1 🔻		Chann	el 29		
	PT1000	3 Wire	Channel 30	ICP			Gain:	1 🔻		Chann	el 30		
		2 Wire	Channel 31	ICP			Gain:	1 🔻		Chann			
	PT1000	Zvvire	Channel 32	ICP			Gain:	1 🔻		Chann	el 32		
				bload Parameters tr	MT-PR) and perform Autozer	0						
Range:	-25150 °C					- ponolini alozon	-						
-	-50300 °C		Downl	oad Parameters fro	m MT-PF	10		*** D	ownload succe	SS ***			
-100600 °C												D	
100000 0		KMT Kraus Mes Gewerbering 9										~5	
		D-83624 OTTER Germany	FING										
Selectable for each channel!		www.kmt-gmbl											
			and given given										+
												a 100)% 🔻
			L.										